DETAILED ESTIMATE

Improvements of Siddhartha Nagara Slum in Ward No-16 in RR Nagar Constituency

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BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work:-Improvements of Siddhartha Nagara Slum in Ward No-16 in RR Nagar Constituency

Job no:-016-20-000026

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	400.00 Rate	Lakhs Amount
1	KSRRB M200-15.1. **Dismantling of existing structures** like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202(P 139/ITNO:18.26)PWD SR 2018-19								
	Old and Damaged Culverts	Cum							
	Taking Avg Dimensions		8	6.00	1.50	1.30	93.60		
							93.60	**404.30**	**37842**
	Basic Rate	289.00							
	Loading & unLoading	57.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 6%	17.34							
		404.30							
2	KSRRB 300-3. **Earthwork excavation** by manual means in **ordinary soil** invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. Page No. 143/ Item No. 19.1/ PWD SR 2018-19								
	Excavation	Cum							
	Lilly Provision Store Road		1	115.00	1.10	0.9	113.85		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	1.10	0.9	99.99		
	Sub Cross Road		1	207.80	1.10	0.9	205.72		
	Transform Opposite (Provision Store corner)		1	112.00	1.10	0.9	110.88		
	Shri Matamma Temple Road (Water Teank)		1	36.00	1.10	0.9	35.64		
	# 205 M.L Kumar House Road		1	85.00	1.10	0.9	84.15		
	Shashi House Road		1	118.00	1.10	0.9	116.82		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	1.10	0.9	325.71		
	Corner Building Under Construction Road		1	33.00	1.10	0.9	32.67		
	Anju Store Road		1	121.80	1.10	0.9	120.58		
	St. Antony Church (Circle) Opposite Road		1	104.00	1.10	0.9	102.96		
	Towards Shrine Engg Works Shop Road		1	22.00	1.10	0.9	21.78		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	1.10	0.9	24.75		
	Bethal Church Right (Road)		1	110.00	1.10	0.9	108.90		
	For Missing Bits			L=1519.60m					
			2	83.00	1.10	0.9	164.34		
	New Culverts								
			8	6.00	1.20	0.90	51.84		
							1720.58	**235.76**	**405644.88**

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Sl No.	Job no:-016-20-000026 / Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. / Qty	400.00 / Rate	Lakhs / Amount
	Basic Rate	130.00							
	Loading & unLoading	57.00							
	Add for lead for earth (1.28 Tonne / Cum) 16km	40.96							
	Area Weightage @ 6%	7.80							
		235.76							
3	KSRB M2900-1. **Plain cement concrete 1:3:6 mix** with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications MORTH Specification No. 408 KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
	NEW DRAIN	Cum							
	Lilly Provision Store Road		1	115.00	1.00	0.15	17.25		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	1.00	0.15	15.15		
	Sub Cross Road		1	207.80	1.00	0.15	31.17		
	Transform Opposite (Provision Store corner)		1	112.00	1.00	0.15	16.80		
	Shri Matamma Temple Road (Water Teank)		1	36.00	1.00	0.15	5.40		
	# 205 M.L Kumar House Road		1	85.00	1.00	0.15	12.75		
	Shashi House Road		1	118.00	1.00	0.15	17.70		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	1.00	0.15	49.35		
	Corner Building Under Construction Road		1	33.00	1.00	0.15	4.95		
	Anju Store Road		1	121.80	1.00	0.15	18.27		
	St. Antony Church (Circle) Opposite Road		1	104.00	1.00	0.15	15.60		
	Towards Shrine Engg Works Shop Road		1	22.00	1.00	0.15	3.30		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	1.00	0.15	3.75		
	Bethal Church Right (Road)		1	110.00	1.00	0.15	16.50		
	For Missing Bits								
			2	83.00	1.00	0.15	24.90		
	New Culverts								
			8	6.00	1.20	0.15	8.64		
							261.48	**4479.56**	**1171315.35**
	Basic Rate	4226.00							
	Area Weightage @ 6%	253.56							
	Total	**4479.56**							
4	KSRB 4.2.8 Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 KPWD S.R 2018-19 Page No. 14 I.No. 4.13								
	DRAIN RAFT	Cum							
	Lilly Provision Store Road		1	115.00	0.90	0.15	15.53		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	0.90	0.15	13.64		
	Sub Cross Road		1	207.80	0.90	0.15	28.05		

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Job no:-016-20-000026						Est .Cost Rs.	400.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Transform Opposite (Provision Store corner)		1	112.00	0.90	0.15	15.12		
	Shri Matamma Temple Road (Water Teank)		1	36.00	0.90	0.15	4.86		
	# 205 M.L Kumar House Road		1	85.00	0.90	0.15	11.48		
	Shashi House Road		1	118.00	0.90	0.15	15.93		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	0.90	0.15	44.42		
	Corner Building Under Construction Road		1	33.00	0.90	0.15	4.46		
	Anju Store Road		1	121.80	0.90	0.15	16.44		
	St. Antony Church (Circle) Opposite Road		1	104.00	0.90	0.15	14.04		
	Towards Shrine Engg Works Shop Road		1	22.00	0.90	0.15	2.97		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	0.90	0.15	3.38		
	Bethal Church Right (Road)		1	110.00	0.90	0.15	14.85		
	For Missing Bits								
			2	83.00	0.90	0.15	22.41		
	DRAIN WALL								
	Lilly Provision Store Road		2	115.00	0.15	0.6	20.70		
	Shrine Engineering Work Shop Road (Circle)		2	101.00	0.15	0.6	18.18		
	Sub Cross Road		2	207.80	0.15	0.6	37.40		
	Transform Opposite (Provision Store corner)		2	112.00	0.15	0.6	20.16		
	Shri Matamma Temple Road (Water Teank)		2	36.00	0.15	0.6	6.48		
	# 205 M.L Kumar House Road		2	85.00	0.15	0.6	15.30		
	Shashi House Road		2	118.00	0.15	0.6	21.24		
	Christian Statue (Circle Dead End) Towards Main Road		2	329.00	0.15	0.6	59.22		
	Corner Building Under Construction Road		2	33.00	0.15	0.6	5.94		
	Anju Store Road		2	121.80	0.15	0.6	21.92		
	St. Antony Church (Circle) Opposite Road		2	104.00	0.15	0.6	18.72		
	Towards Shrine Engg Works Shop Road		2	22.00	0.15	0.6	3.96		
	Samudhaya Bhavan (Left Road) opposite Water plant		2	25.00	0.15	0.6	4.50		
	Bethal Church Right (Road)		2	110.00	0.15	0.6	19.80		
	For Missing Bits								
			4	83.00	0.15	0.6	29.88		
	Culvert Raft								
	New Culverts								
			8	6.00	1.20	0.15	8.64		
	Culvert Wall								
	New Culverts								
			16	6.00	0.23	0.60	13.25		
							552.85	**6245.52**	**3452848.22**
	Basic Rate	5892.00							

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Sl No	Job no:-016-20-000026 Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	400.00 Rate	Lakhs Amount
	Area Weightage @ 6%	353.52							
	Total	**6245.52**							
5	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 **TMT Bars Fe 500**(P-229/28.8.2) PWD SR 2018-19								
	For RCC Drain	**Ton**							
	Total RCC Quantity =	Cum					530.96		
	For 1 CUM = 60	Kg					60.00		
		Kg					31857.84		
							31.86	**72326.98**	**2304181.36**
	For RCC Culvert	**Ton**							
	Total RCC Quantity =	Cum					21.89		
	For 1 CUM = 80	Kg					80.00		
		Kg					1751.04		
							1.75	**72326.98**	**126647.44**
	Basic Rate	68233.00							
	Area Weightage @ 6%	4,093.98							
	Total	**72326.98**							
6	Providing & laying **precast drain cover slab of 100 mm** thickness in CM 1:3 including cost of all materials, labour, curing, transportation, loading, unloading etc, complete as per the directions of the Engineer In Charge.(0.90 x 0.60 x 0.10) **(Approved Data rate)**								
		Sqm							
	New Slabs								
	Lilly Provision Store Road		1	115.00	0.90		103.50		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	0.90		90.90		
	Sub Cross Road		1	207.80	0.90		187.02		
	Transform Opposite (Provision Store corner)		1	112.00	0.90		100.80		
	Shri Matamma Temple Road (Water Teank)		1	36.00	0.90		32.40		
	# 205 M.L Kumar House Road		1	85.00	0.90		76.50		
	Shashi House Road		1	118.00	0.90		106.20		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	0.90		296.10		
	Corner Building Under Construction Road		1	33.00	0.90		29.70		
	Anju Store Road		1	121.80	0.90		109.62		
	St. Antony Church (Circle) Opposite Road		1	104.00	0.90		93.60		
	Towards Shrine Engg Works Shop Road		1	22.00	0.90		19.80		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	0.90		22.50		
	Bethal Church Right (Road)		1	110.00	0.90		99.00		
	For Missing Bits								
			1	83.00	0.90		74.70		
							1442.34	**2337.00**	**3370748.58**
	Data Rate	2337.00							
	Total	**2337.00**							

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Sl No	Description of Items	Unit	No	L (m)	B (m)	D (m)	Qty	Rate	Amount
7	Providing & laying precast Kerb cover slab of 600 mm thickness in C.M 1:3 including cost of all materials, labour, cutting, transportation, loading, unloading etc., complete as per the directions of the Engineer in charge. (L x B/D x D/B) **(Approved State rate)**								
	New Culverts	Rgm							
			8	6.00	1.20		57.60		
							57.60	1420.00	81792.00
	Town Rate	1420.00							
	Town	1420.00							
	ROAD WORKS								
8	KSHRS M(V)-14. **Dismantling of cement concrete pavement** by mechanical means using pneumatic tools including to stack the excavated soil, rubble and waste lying at designated location and transport of dismantled materials including serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 302 (pg no. 140) & Lab SR 47/KPWD, S & P 2018-19								
	CC Road	Cum							
	Lilly Provision Stores Road		1	115.00	5.00	0.15	86.25		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	4.00	0.15	72.72		
	Sub Cross Road		1	257.00	4.00	0.15	185.04		
	Transform Opposite (Provision Store corner)		1	110.00	4.50	0.15	74.25		
	Shri Mahamma Temple Road (Water Tank)		1	80.00	10.00	0.15	120.00		
	# 205 M.L Kumar House Road		1	85.00	2.00	0.15	25.50		
	Shashi House Road		1	110.00	5.00	0.15	82.50		
	Christian Statue (Circle Lead Path) Towards Main Road		1	256.00	3.00	0.15	172.80		
	Corner Building Under Construction Road		1	22.00	2.50	0.15	12.38		
	Anju Store Road		1	122.00	3.50	0.15	64.05		
	St. Antony Church (Circle) Opposite Road		1	104.00	4.50	0.15	70.20		
	Towards Shrine Engg. Works Shop Road		1	22.00	5.20	0.15	17.16		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	5.00	0.15	18.75		
	Bethal Church Right (Road)		1	100.00	5.00	0.15	82.50		
				1,315.26			1320.56	355.50	469811.32
	Basic Rate	355.50							
	Add for lead for earth (1.20 Tonne / Cum) 16km	60.56							
	Area Weightage @ 5%	17.94							
		355.50							
9	KSHRS M(V)-14. **Excavation for roadwork** in all types of soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1.00 km and complete as per specifications. MORTH Specification No. 301 (pg no. 140) & Lab SR 19/KPWD, S & P 2018-19								
	For UGD	Cum							
	250 mm Dia S.W Pipe								
	Lilly Provision Stores Road		1	115.00	1.00	0.9	103.50		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	1.00	0.9	90.90		
	Sub Cross Road		1	257.00	1.00	0.9	231.30		

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Job no:-016-20-000026						Est .Cost Rs.	400.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Transform Opposite (Provision Store corner)		1	112.00	1.00	0.9	100.80		
	Shri Matamma Temple Road (Water Teank)		1	36.00	1.00	0.9	32.40		
	# 205 M.L Kumar House Road		1	85.00	1.00	0.9	76.50		
	Shashi House Road		1	118.00	1.00	0.9	106.20		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	1.00	0.9	296.10		
	Corner Building Under Construction Road		1	33.00	1.00	0.9	29.70		
	Anju Store Road		1	121.80	1.00	0.9	109.62		
	St. Antony Church (Circle) Opposite Road		1	104.00	1.00	0.9	93.60		
	Towards Shrine Engg Works Shop Road		1	22.00	1.00	0.9	19.80		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	1.00	0.9	22.50		
	Bethal Church Right (Road)		1	110.00	1.00	0.9	99.00		
	I.C Chambers		155	1.20	1.20	0.8	178.56		
	Man Hole 30x3.14x2.18x2.18x1.30 / 4 = 145.5		52	4.85			252.20		
	Deduction								
	For Manholes		-52	2.18	1.50	0.80	-136.03		
	I.C Chambers		-155	0.60	1.00	0.8	-74.40		
	For C.C Road								
	Lilly Provision Store Road		1	115.00	4.50	0.3	155.25		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	3.80	0.3	115.14		
	Sub Cross Road		1	207.80	3.80	0.3	236.89		
	Transform Opposite (Provision Store corner)		1	112.00	3.50	0.3	117.60		
	Shri Matamma Temple Road (Water Teank)		1	36.00	9.00	0.3	97.20		
	# 205 M.L Kumar House Road		1	85.00	1.80	0.3	45.90		
	Shashi House Road		1	118.00	4.50	0.3	159.30		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	2.50	0.3	246.75		
	Corner Building Under Construction Road		1	33.00	1.50	0.3	14.85		
	Anju Store Road		1	121.80	2.30	0.3	84.04		
	St. Antony Church (Circle) Opposite Road		1	104.00	3.50	0.3	109.20		
	Towards Shrine Engg Works Shop Road		1	22.00	5.20	0.3	34.32		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	4.90	0.3	36.75		
	Bethal Church Right (Road)		1	110.00	4.00	0.3	132.00		
							3173.16	**84.42**	**267878.34**
	Basic Rate	41.00							
	Add for lead for earth (1.28 Tonne / Cum) for 16km	40.96							
	Area Weightage @ 6%	2.46							
		84.42							

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10	Providing and fixing unplasticised PVC pipes with working pressure 10 kg/sq.cm with pipe fittings, clips, making good the floor, including cost of all materials, labour charges, HOM and testing complete as per specifications.-do- with 225mm outer dia KPWD S.R 2018-19 Page No. 77I.No. 11.56.6								
	For UGD	mtr							
	230 mm Dia S.W Pipe								
	Lilly Provision Store Road		1	115.00			115.00		
	Shrine Engineering Work Shop Road (Circle)		1	101.00			101.00		
	Sub Cross Road		1	207.80			207.80		
	Transform Opposite (Provision Store corner)		1	112.00			112.00		
	Shri Matamma Temple Road (Water Teank)		1	36.00			36.00		
	# 205 M.L Kumar House Road		1	85.00			85.00		
	Shashi House Road		1	118.00			118.00		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00			329.00		
	Corner Building Under Construction Road		1	33.00			33.00		
	Anju Store Road		1	121.80			121.80		
	St. Antony Church (Circle) Opposite Road		1	104.00			104.00		
	Towards Shrine Engg Works Shop Road		1	22.00			22.00		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00			25.00		
	Bethal Church Right (Road)		1	110.00			110.00		
	Deduction								
	I.C Chambers		-155	0.45			-69.75		
							1449.85	**2,023.54**	**2933829.47**
	Basic Rate	1,909.00							
	Area Weightage @ 6%	114.54							
		2,023.54							
11	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifcations. MORTH Specifcation No. 408. KPWD S.R 2018-19 Page No. 254 I.No. 34.1								
	For UGD	cum							
	230 mm Dia S.W Pipe								
	Lilly Provision Store Road		1	115.00	0.50	0.15	8.63		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	0.50	0.15	7.58		
	Sub Cross Road		1	207.80	0.50	0.15	15.59		
	Transform Opposite (Provision Store corner)		1	112.00	0.50	0.15	8.40		
	Shri Matamma Temple Road (Water Teank)		1	36.00	0.50	0.15	2.70		
	# 205 M.L Kumar House Road		1	85.00	0.50	0.15	6.38		
	Shashi House Road		1	118.00	0.50	0.15	8.85		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	0.50	0.15	24.68		
	Corner Building Under Construction Road		1	33.00	0.50	0.15	2.48		
	Anju Store Road		1	121.80	0.50	0.15	9.14		

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	Job no:-016-20-000026					Est .Cost Rs.	400.00	Lakhs	
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	St. Antony Church (Circle) Opposite Road		1	104.00	0.50	0.15	7.80		
	Towards Shrine Engg Works Shop Road		1	22.00	0.50	0.15	1.65		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	0.50	0.15	1.88		
	Bethal Church Right (Road)		1	110.00	0.50	0.15	8.25		
	Deduction								
	Man Hole		-52	2.18	0.50	0.15	-8.50		
							105.47	**4,479.56**	**472450.23**
	Basic Rate	4,226.00							
	Area Weightage @ 6%	253.56							
		4,479.56							
12	KSRB 12-5.2 : Constructing brick masonry circular type manhole 0.91 m internal dia at bottom, 1.67 m deep and 0.56m dia at top with table moulded non-modular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of mechineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid seperately) Specification No. KBS 12.4KPWD S.R 2018-19 Page No. 73 I.No. 11.38									
	For UGD	No,s							
	For 300 mm								
	Man Hole		52				52.00		
							52.00	**25,741.04**	**1338534.08**
	Basic Rate	24,284.00							
	Area Weightage @ 6%	1,457.04							
		25,741.04							
13	KSRB 12-8.1 : Constructing brick masonry inspection chamber for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS. – do – 450x450mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450m(P.No. 73/ I.No.11.50.3 of PWD SR 2018-19)								
	For UGD	No,s							
	For 230 mm						155.00		
	I.C Chambers		155						
							155.00	**5,618.00**	**870790.00**
	Basic Rate	5,300.00							
	Area Weightage @ 6%	318.00							
		5,618.00							

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Job no:-016-20-000026						Est .Cost Rs.	400.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
14	KSRB 12-7.1 : Making connection of drain or sewer line of size 230 to 300 mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M 15 with 20mm and downsize granite metal, cement plastered on both sides of mix 1:3, finished with a floating coat of neat cement, and making necessary channels for the drain, including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS KBS KPWD SR P-73 I.NO.11.48								
	For UGD	No,s							
	Connection		104				104.00		
	Basic Rate	3,488.00					**104.00**	**3,697.28**	**384517.12**
	Area Weightage @ 6%	209.28							
		3,697.28							
15	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 P.No73I.NO.11.44								
	For UGD	No,s							
	For Man Holes		52				52.00		
	Basic Rate	276.00					**52.00**	**292.56**	**15213.12**
	Area Weightage @ 6%	16.56							
		292.56							
16	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. - 110mm dia KPWD SR P-88 I.NO.12.116.1								
	For UGD	M							
	From Individual House		250	3.00			750.00		
	Basic Rate	434.00					**750.00**	**460.04**	**345030.00**
	Area Weightage @ 6%	26.04							
		460.04							
17	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (pg no- 153,S.Lno-20.5)KPWD S.R 2018-19								
	CC Road	Cum							
	Lilly Provision Store Road		1	115.00	5.50	0.15	94.88		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	4.80	0.15	72.72		
	Sub Cross Road		1	207.80	4.80	0.15	149.62		
	Transform Opposite (Provision Store corner)		1	112.00	4.50	0.15	75.60		
	Shri Matamma Temple Road (Water Teank)		1	36.00	10.00	0.15	54.00		
	# 205 M.L Kumar House Road		1	85.00	2.80	0.15	35.70		
	Shashi House Road		1	118.00	5.50	0.15	97.35		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	3.50	0.15	172.73		
	Corner Building Under Construction Road		1	33.00	2.50	0.15	12.38		
	Anju Store Road		1	121.80	3.30	0.15	60.29		

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	Job no:-016-20-000026					Est .Cost Rs.	400.00	Lakhs	
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	St. Antony Church (Circle) Opposite Road		1	104.00	4.50	0.15	70.20		
	Towards Shrine Engg Works Shop Road		1	22.00	6.20	0.15	20.46		
	Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	5.90	0.15	22.13		
	Bethal Church Right (Road)		1	110.00	5.00	0.15	82.50		
							1020.54	1994.92	2035889.67
	Basic Rate	1882.00							
	Area Weightage @ 6%	112.92							
	Total	1994.92							

18 KSRRB M600-1.Providing and Constructing **dry lean cement concrete** mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5-do-with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (P.No.174, I.No. 22.1.2 of PWD SR 2018-19)

CC Road	Cum							
Lilly Provision Store Road		1	115.00	5.50	0.15	94.88		
Shrine Engineering Work Shop Road (Circle)		1	101.00	4.80	0.15	72.72		
Sub Cross Road		1	207.80	4.80	0.15	149.62		
Transform Opposite (Provision Store corner)		1	112.00	4.50	0.15	75.60		
Shri Matamma Temple Road (Water Teank)		1	36.00	10.00	0.15	54.00		
# 205 M.L Kumar House Road		1	85.00	2.80	0.15	35.70		
Shashi House Road		1	118.00	5.50	0.15	97.35		
Christian Statue (Circle Dead End) Towards Main Road		1	329.00	3.50	0.15	172.73		
Corner Building Under Construction Road		1	33.00	2.50	0.15	12.38		
Anju Store Road		1	121.80	3.30	0.15	60.29		
St. Antony Church (Circle) Opposite Road		1	104.00	4.50	0.15	70.20		
Towards Shrine Engg Works Shop Road		1	22.00	6.20	0.15	20.46		
Samudhaya Bhavan (Left Road) opposite Water plant		1	25.00	5.90	0.15	22.13		
Bethal Church Right (Road)		1	110.00	5.00	0.15	82.50		
						1020.54	3884.90	3964684.19
Basic Rate	3665.00							
Area Weightage @ 6%	219.90							
Total	3884.90							

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Job no:Ele-20-00025					Est .Cost Rs.	400.00	Lakhs	
S.No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
19	Constructing un-reinforced, plain **cement concrete for pavements** using Grade concrete **M30** over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplasticizer at 3 lts conforming to IS 9103-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications.do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (P.No.175, I.No. 22.6.1 of PWD SR 2018-19)								
	CC Road	Cum							
	Lilly Provision Store Road		1	115.00	5.50	0.15	94.88		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	4.80	0.15	72.72		
	Sub Cross Road		1	207.80	4.80	0.15	149.62		
	Transform Opposite (Provision Store corner)		1	112.00	4.50	0.15	75.60		
	Shri Matamma Temple Road (Water Tank)		1	36.00	10.00	0.15	54.00		
	# 205 M.L Kumar House Road		1	85.00	2.80	0.15	35.70		
	Shashi House Road		1	118.00	5.50	0.15	97.35		
	Christian Statue (Circle Dead End) Towards Main Road		1	329.00	3.50	0.15	172.73		
	Corner Building Under Construction Road		1	33.00	2.50	0.15	12.38		
	Anju Store Road		1	121.80	3.30	0.15	60.29		
	St. Antony Church (Circle) Opposite Road		1	104.00	4.50	0.15	70.20		
	Towards Shrine Engg Works Shop Road		1	22.00	6.20	0.15	20.46		
	Samradhya Bhavan (Left Road) opposite Water plant		1	25.00	5.90	0.15	22.13		
	Bethal Church Right (Road)		1	110.00	5.00	0.15	82.50		
							1020.54	**5210.96**	**5317977.49**
	Basic Rate	4916.00							
	Area Weightage @ 6%	294.96							
	Total	**5210.96**							
20	**Vaccum de-watering** with vaccum pump and suction mat and . compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift. Pg:176 Item No 22.7 in SR 2018-19.								
	CC Road	sqm							
	Lilly Provision Store Road		1	115.00	5.50		632.50		
	Shrine Engineering Work Shop Road (Circle)		1	101.00	4.80		484.80		
	Sub Cross Road		1	207.80	4.80		997.44		
	Transform Opposite (Provision Store corner)		1	112.00	4.50		504.00		
	Shri Matamma Temple Road (Water Tank)		1	36.00	10.00		360.00		
	# 205 M.L Kumar House Road		1	85.00	2.80		238.00		

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Job no: 016-20-000026 — Est. Cost Rs. 400.00 Lakhs

Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
	Shashi House Road		1	116.60	5.50		649.60		
	Christian Statue (Circle Road)								
	End Towards Main Road		1	230.00	4.50		1151.50		
	Corner Building Under Construction Road		1	44.00	4.50		82.50		
	Anju Store Road		1	121.80	4.30		461.94		
	St. Antony Church (Circle) Opposite Road		1	104.00	4.50		468.00		
	Towards Shrine Engg Works shop Road		1	23.00	6.30		136.40		
	Samuthaya Bhavan (Left Road) opposite Water plant		1	25.00	5.90		147.50		
	Bethal Church Right (Road)		1	110.00	5.60		550.00		
							6803.58	72.08	490472.15
	Basic Rate	68.00							
	Area Weightage @ 6%	4.08							
	Total	**72.08**							
	Street Lights								
21	Supplying of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with injection moulded polycarbonate material, delivering superior light output, rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% maximum light intensity should be between 60 degrees to 70 degrees, CCT-5500K,IP 66 Optical and electrical compartment & impact resistance of complete luminaire-IK08, power Factor >0.9 with mains Surge Protection Min 5KV along with Over Voltage/Overload, short circuit/miss-wiring protection, Compatible for pole mouting with outer dia of 40mm to50mm, Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60HZ application Compliance to IS 16922/IEC 60598, LM 79 & LM 80, Adherence with Rohsw UL approved MCPCB, Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools,LED Light fixture with ---W System power consumption, LED Efficiency>130lm/w, nominal CRI>75, luminaire manufacture should have in-house facility accredited by NABL/CPRI & any Government certified agency & Desing & Development facility certified by ISO 9001:2008, Housing with supplier word mark/name shall be Engraved/Embossing on the die cast housing/Body part, Warranty of 2 years against any manufacturing defect working under standard electrical conditions as mentioned above shold be given by LED manufacturer & Cree/Nichia/lumileds/Osram make LED Source,LED Streetlight 70 Watts(Page No.67 Item no.12.8.3)									
		Each							
			300				300.00		
							300.00	**5480.00**	**1644000.00**
	Basic Rate	5480.00							
	Total	**5480.00**							
22	Supplying and fixing of 4pole power contactor with NO/NC Contacts on Existing Wood/panel board using necessary bolts, nuts,washers and wiring Ect, complete with AC-3 Rating and as per IS-13947(100 to 125Amps, Item No.5.13.4, Page No.28)								
		Each							
			22				22		
							22	**7200.00**	**158400.00**
	Basic Rate	7200.00							
	Total	**7200.00**							
23	Supplying and Fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with short circuit breaking capacity of 10k and complete wiring as required confirming to IEC 60898.(Page No.27, Item No.5.17.3)50-63 Amps SP								
		Each							
			44				44		
							44	**723.00**	**31812.00**
	Basic Rate	723.00							
	Total	**723.00**							

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Job no: 016-20 (00002)						Est .Cost Rs.	400.00	Lakhs
Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Qty	Rate	Amount
24	Supplying and Installation/Fixing/Provision of Outdoor type Thermoplastic Modular panel enclosure with transparent polycarbonate lid, shock proof, IP65 (Weather Proof) rust proof, dust proof, water proof, corrosion proof having internally embedded gasket on both lid and flap suitable to fix single Phase/three Phase Engergy Meter in Suiteble base plate and having a provision for Fuse/MCB cutout with suitable transparent hinged flap operating MCB along with complete tamper proof SEALING facility , 220mmX450mmX214mm (Page No.31, Item No.5.44.3)								
		Each							
			44				44		
							44	**5127.00**	**225588.00**
	Basic Rate	5127.00							
	Total	**5127.00**							
25	Micro processor based electronic timer consisting of Display Unit (LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/Contactor in programmable mode (pre-defined ON/Off time)or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (luz leyel using IR sensor), built in software to seclect the mode of operation by the user (Approvaed Rate)								
		Each							
			22				22		
							22	**7214.00**	**158708.00**
	Basic Rate	7214.00							
	Total	**7214.00**							
26	Supplying and fixing of ....mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1X40/2X40 watts fluorescent tube street light fitting of all Capacties. To GI or CI or rail or RCC pole/wall using suitable clamps, bolts and nuts wiring using suitable capacity wires. Using 32mm dia G.I.Pipe (pag. No.79, Item No.14.1.2)								
		Each							
			300				300		
							300	**835.00**	**250500.00**
	Basic Rate	835.00							
	Total	**835.00**							
27	Fixing charges of post top/Gate/Garden fitting /LED on the existing CI/GI or any other pipe using required size of reducer, wiring using suitable wires, (Item No.14.6 Page No.79)								
		Each							
			300				300		
							300	**154.00**	**46200.00**
	Basic Rate	154.00							
	Total	**154.00**							
28	Supplying and fixing Moulded case circuit Breker (MCCB) over the exisiting wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete protection of overload and Short circuit with tharmal Mangnetic/Micro processor relese and Earth Fault as per IS-13947(Icu=Ics)100Amps 25ka.(Item No.5.14.1, Pag No.26)								
		Each							
			22				22		
							22	**4530.00**	**99660.00**
	Basic Rate	4530.00							
	Total	**4530.00**							
29	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, stranded Aluminium wire single core in open or Concealed system of Wiring, 4 sqmm(Item No.2.7.1, [pag No.7)								
		mtr							
			3000				3000		
							3000	**9.00**	**27000.00**
	Basic Rate	9.00							
	Total	**9.00**							
30	Supplying of 1.1 KV LT Ug Cable XLPE or Heat resistant PVC insulateded PVC Extruded inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistiy 14 Ohma/kms (Max) as per IS-3975 , 3.5 core 25 sqmm(Item No.6.4.5, Page No.40)								

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Sl No	Description of Items	Unit	No	L (M)	B (M)	D (M)	Est .Cost Rs. Qty	Rate	400.00 Lakhs Amount
		mtr							
			300						
							300		
	Basic Rate	180.00							
	Total	**180.00**					**300**	**180.00**	**54000.00**
31	Labour Charges for laying of 1.1 Kv class UG cable in Existing trench GI pipe/ stoneware pipe/on wall/on pole as required.25 sqmm to 75 sqmm(Item No.6.5.2, Page no.41)								
		mtr							
			142						
							142		
	Basic Rate	15.50							
	Total	**15.50**					**142**	**15.50**	**2201.00**
	Sub Total								
	Tender Premium 5%								**33330881.59**
	GST 12%								**1666544.08**
	Project Management Consultancy 1%								**4199691.08**
	Detailed project report 1%								**400000.00**
	Miscellaneous								**400000.00**
	Total								**2883.25**
									40000000.00

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2018-19
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

QUALITY CONSULTANTS & ENGINEERS Bangalore

Consultants

Asst Engineer
Ward No- 16
BBMP

Asst Executive Engineer
Yeshwanthpura Sub Division
BBMP

Executive Engineer
R.R Nagara Division
BBMP

ನಂ.: 127/2020-21 ದಿನಾಂಕ: 10/7/2020
ರೂ. 400.00 [Rs. Four hundred lakhs only
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ.
ಆಯುಕ್ತರವರ ಆಜ್ಞಾನುಸಾರ ರಾಜಾಜಿನಗರ ನಗರ ವಿಭಾಗ
ಬ.ಮ.ನ.ಪ., ಬೆಂಗಳೂರು-72

TECHNICAL SANCTION
Rs: 40000000/- (Rs Four crore only) is accorded
under the head: P - 3715
By CE(R.R.N.), P.N: 36-37
Registered as CE (R.R.N) No. 144/20-21 subject to conditions contained in enclosed memo No: 144/20-21 Dated 03/08/2020
QTA, CE (R.R.N.)

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